

**Office Memorandum • UNITED STATES GOVERNMENT**

TO : Chief, Engineering Division, OC

DATE: 5 February 1954

FROM : Chief, Test &amp; Evaluation Section

SUBJECT: Status of Equipment, 

25X1

1. During the month of September 1953, the following equipment  
was delivered to

25X1

## a. 23 ea. Recorder Assemblies consisting of:

46 ea. Recorders

46 ea. Power Supplies

46 ea. Recording Amplifiers

## Accessories as follows:

1 set tubes per each amplifier and recorder

1 set cables per each recorder

1 ea. capstan per each recorder

6 ea. mounting block per each recorder

1 ea. package misc. hardware per each recorder

## b. 23 ea. Rack Cabinet Assemblies consisting of :

1 ea. 6 ft. rack w/doors

1 ea. Outlet strip, mounted

2 ea. Cables, clamped in rack

1 ea. Cable, coaxial, 24½" w/connectors

1 ea. Cable, coaxial, 44" w/connectors

1 pkg. Miscellaneous hardware

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c. 18 ea. Reproducer Assemblies consisting of:

- 18 ea. Power Supplies
- 18 ea. Reproducer Amplifiers
- 18 ea. Foot Controls
- 18 ea. Control Units
- 18 ea. Filters (Hycor Model 4200)
- 18 ea. Transport Units (Concertone)
- 18 Boxes Cables #1, 2, 3, 4, 8, 9
- 18 pkg. Miscellaneous hardware
- 18 ea. Rack Cabinets, 42" w/rear doors

d. 8 ea. Rewind Units

e. 8 ea. Storage Cabinets

f. Instruction manuals, preliminary, for recorder and reproducers.

2. The above mentioned equipment was delivered by Agency truck and accompanied by a shipping list prepared by the vendor and presented by the truck driver. There was no other record of delivery. The shipping list did not contain a contract number nor state the method of purchase by the Government. This Section instituted a search of the various channels for a purchase order number, but none was found. It was determined, however, that this was a partial delivery of a large order for equipment. No documents were available in the Receiving Unit until 20 January 1954, against which to credit the equipment or with which to check it.

3. The T&E Section was directed to test the equipment. These tests were begun, at which time it was noted that:

- a. Installation instructions in the preliminary manuals

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which accompanied equipment did not agree with the markings and performance of the equipment.

b. It was impossible to duplicate the alignment of equipment and produce the frequency response curve called for in the manual.

4. The next significant development was that T&E Section was directed to install one complete unit [ ] and await the representatives of the manufacturer. This installation was accomplished. The T&E personnel assigned to this project waited two days for the manufacturer's representatives, but they failed to arrive. Accordingly, T&E personnel were recalled to await further developments. 25X1

5. The following action was taken by the T&E Section:

a. Formal report of discrepancies was sent to Chief, Engineering Division, for forwarding to proper authorities.

6. Approximately three weeks later, T&E was notified that representatives of manufacturer would arrive at the warehouse to go over the equipment and determine whether or not it was functioning properly. [ ] arrived and began an inquiry as to the whereabouts of permanent instruction books. The instruction books had been shipped [ ] on or about 15 July 1953. The books were located by Engineering Division and turned over to the T&E Section to be included with the equipment. These instruction books revealed that the discrepancies which existed in the preliminary books had been corrected. However, cabling mistakes were still present. 25X1

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A test of the recording amplifiers was begun and it was noted that distortion was present on the recording. It was therefore decided to take all of the recording amplifiers back to the manufacturer for rework. The rework accomplished, [ ] and three representatives [ ] returned to the warehouse to reinspect the equipment. Mechanical difficulties were corrected and amplifiers were installed. [ ] suggested that they would produce one amplifier curve for our consideration and if it met the curve as shown in the manual, they would assume that the balance were acceptable.

7. Chief, T&E, advised that it would be necessary to run curves on at least five separate amplifiers and if these were acceptable, test recordings should be made on all units. This would be the basis for our acceptance. This was agreed to by [ ] Accordingly, tests were begun, but it was noted that the recording amplifier bias voltage as adjusted at the factory failed to produce response curve as noted in the manual. Attempts were made to adjust this voltage to a standard level which would produce the aforementioned curve. This did not prove satisfactory, in that the characteristics of the recording heads varied. This variance would make it mandatory to individually set each amplifier for the recording with which it would be used. It would also be necessary to attach each amplifier to the specific recording head and interchangeability would be seriously hampered unless realignment was effected in each case.

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8. At this point, a meeting was held between [redacted] 25X1  
[redacted], and it was 25X1  
decided that [redacted] would take one recording head to the 25X1  
factory and determine whether or not the characteristics would permit  
the use of the response curve as outlined in the manual. Two courses  
of action are open at this time:

- a. Modify response curve in manual so that equipment will meet it.
- b. Select recording heads, align amplifiers, and attach each  
amplifier directly and permanently to recording head so that it will  
meet existing curves.

9. [redacted] called Chief, T&E, and informed that 25X1  
representatives will return to Washington on Wednesday, 10 February 1954  
and will modify curve to best possible response that the equipment will  
produce; it will be necessary to attach amplifiers to recorders and  
align accordingly. Instruction books will have to be either rewritten  
or amended. Further tests will be continued at that time.



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## Distribution:

- 1 - Courtesy
- 1 - C&ERB
- 1 - OCSAM 1 - T&E Ref. No. 01703

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